

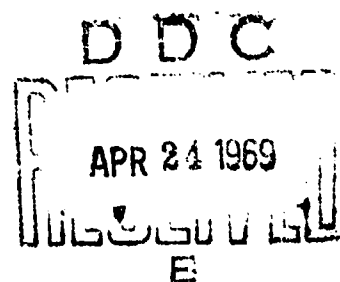
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**AEROSPACE,
AERONAUTICAL
ART AND SCIENCE**

**Classification Schedules
based on those
prepared by
JAMES M. SAUNDERS
for the U. S. Naval Academy Library.**

**Revised, expanded and indexed
by the Staff of the
U. S. Air Force Academy Library**

**U. S. AIR FORCE ACADEMY
COLORADO 1968**



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UNITED STATES AIR FORCE ACADEMY MISSION:

TO PROVIDE INSTRUCTION, EXPERIENCE AND MOTIVATION TO EACH CADET SO THAT HE WILL GRADUATE WITH THE KNOWLEDGE, CHARACTER AND QUALITIES OF LEADERSHIP ESSENTIAL TO HIS PROGRESSIVE DEVELOPMENT AS A CAREER OFFICER IN THE UNITED STATES AIR FORCE.

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PREFACE

1 November 1968

Mr. James M. Saunders (1891-1957), served on the staff of the U. S. Naval Academy Library for more than forty years. In 1953, he completed his Classification Schedule in Aeronautical Art and Science. At the time, I was assigned to the instructional staff of the U. S. Naval Academy. Mr. Saunders gave me a copy of the schedule which, in turn, I gave to Lt. Colonel Arthur J. Larsen, the first Director of the U. S. Air Force Academy Library. The Saunders Schedule was formally adopted by the Air Force Academy Library and the staff began to make modifications in it. When Colonel Larsen retired in 1956, I succeeded him as Director and assumed responsibility for expanding and indexing the schedule. With the development of jet aircraft, missiles and the space program, considerable expansion of the schedule was required.

The experience gained by the Air Force Academy Library staff over the past fourteen years has enhanced the professional value of the schedule. Since a good portion of the Academy Library's holdings of more than a quarter of a million volumes were cataloged using the schedule, this experience, we feel, will be beneficial to college and university libraries, public libraries and special libraries having extensive collections of aeronautical materials. We also feel that Library School students will be able to benefit by studying this schedule in connection with courses dealing with comparative cataloging and classification systems. Many of us hope that some day the Library of Congress will consider adopting the Saunders Schedule, in whole or in part.

Over the years many present and past professional staff members of the Academy Library worked with this project. I wish to express my appreciation to each of them. Included in this notable group are: Miss Ruby Foster (now of the Stanford University Research Center in California), Miss Ledelle Wettengel (now of the Defense Documentation Center in Washington, D. C.), Miss Helen J. Stiles (now of the Environmental Science Services Administration Library at Boulder, Colorado), Mr. Richard L. Gobble (now Head Librarian at Fort Lewis College at Durango, Colorado), Mr. Sanford S. Neal (now retired); Mr. Gilbert L. Campbell, Chief of the Acquisitions Division, Mr. Donald J. Barrett, Chief of the Public Services Division, Miss Elizabeth Fleenor, Chief of the Cataloging Division, Mr. Robert S. Shaffer, Senior Reference Librarian, Mr. Earl E. Hoven, Senior Reference Librarian, and all of the U. S. Air Force Academy Library staff.

GEORGE V. FAGAN, Colonel, USAF
Professor of History and
Director of the Library

SYNOPSIS

TLB

- 3 - 661 AERONAUTICAL SCIENCE AND TECHNOLOGY.
GENERAL WORKS.
- 663 - 731 AERONAUTICAL EDUCATION AND TRAINING (EXCLUDING
MILITARY).
- 851 - 995 AERONAUTICAL SCHOOLS (EXCLUDING MILITARY).

TLC

- 3 - 244 FLIGHT TECHNIQUE.
- 261 - 298 AVIATION AND SPACE MEDICINE.
- 321 - 785 AIR NAVIGATION, METEOROLOGY.
- 801 - 893 AVIATION LAW (EXCLUDING SPACE AND INTERNATIONAL
LAW).

TLD

- 3 - 181 AERONAUTICAL ENGINEERING.
- 201 - 405 AERODYNAMICS, APPLIED AND EXPERIMENTAL.
- 451 - 961 AIRCRAFT DESIGN, TYPES (NONMILITARY).
- 1021 - 1455 AIRPORT DESIGN AND CONSTRUCTION.

TLE

- 21 - 497 AIRCRAFT ENGINES, SYSTEMS.
- 501 - 583 ROCKETS (AERONAUTICS AND ASTRONAUTICS).
ROCKET PROPULSION.
- 1021 - 4040 ASTRONAUTICS, SPACE FLIGHT.

TLF

- 101 - 121 COMMERCIAL AND INDUSTRIAL AERONAUTICS.
- 127 - 341 AIRCRAFT MANUFACTURE, PRODUCTION, TRADE.
- 351 - 1201 ALLIED INDUSTRIES, FACTORIES, MANUFACTURING
PROCESSES.

TLG

- 21 - 257 AIRLINES, AIR TRANSPORT INDUSTRIES.
- 351 - 461 AIRPORT OPERATION.
- 1221 - 1847 AIRWAYS, AIR ROUTES, AIR PILOT GUIDES.

SYNOPSIS

UGB

- 3 - 291 MILITARY AERONAUTICAL SCIENCE AND TECHNOLOGY.
GENERAL WORKS.
- 517 - 731 MILITARY AERONAUTICAL EDUCATION AND TRAINING.
- 741 - 9051 MILITARY AERONAUTICAL SCHOOLS. AIR FORCE ACADEMY.
AIR UNIVERSITY. OTHER COUNTRIES.

UGH

- 21 - 1741 AIR FORCES OF THE WORLD.
- 2117 - 5291 MILITARY AIRCRAFT OF THE WORLD.
- 5312 - 5367 AIR BASES. STATIONS.
- 5403 - 5641 EXPENDITURES. APPROPRIATIONS. AIR FORCE RESERVES.
SCIENTIFIC RESEARCH.

UGJ

- 21 - 687 AIR FORCES ADMINISTRATION. PERSONNEL.
- 711 - 921 AIR FORCES LAWS AND REGULATIONS.
- 1012 - 1807 AIR FORCES MAINTENANCE. SUPPLIES. LOGISTICS.

UGK

- 21 - 625 AIR WARFARE. AIR POWER. STRATEGY AND TACTICS.
- 821 - 1603 AVIATION ORDNANCE AND GUNNERY. WEAPONS.
GUIDED MISSILES.

VGB

- 3 - 291 NAVAL AERONAUTICAL SCIENCE AND TECHNOLOGY.
GENERAL WORKS.
- 535 - 571 NAVAL AERONAUTICAL EDUCATION AND TRAINING.
- 741 - 1552 NAVAL AERONAUTICAL SCHOOLS. MARINE CORPS
AERONAUTICAL SCHOOLS. COAST GUARD
AERONAUTICAL SCHOOLS.

VGH

- 21 - 1851 NAVAL AIR FORCES.
- 2127 - 5299 NAVAL AIRCRAFT.
- 5307 - 5313 NAVAL AIR BASES. STATIONS.

VGK

- 21 - 41 NAVAL AIR WARFARE.
- 1031 - 1081 NAVAL MISSILES AND ROCKETS.

OUTLINE

AERONAUTICAL SCIENCE AND TECHNOLOGY. GENERAL WORKS

	TLB	
3 -	61	Societies. Conventions.
71 -	91	Museums. Exhibitions.
	145	Endowments.
	151	Philosophy.
155 -	165	Collected works. Scrapbooks. Facetiae.
171 -	222	Dictionaries. Encyclopedias. Nomenclature.
227 -	245	Registers.
251 -	371	Histories. Biographies. Histories, by place.
401 -	661	Treatises.

AERONAUTICAL EDUCATION AND TRAINING (EXCLUDING MILITARY)

663 -	669	Societies. Conventions. Philosophy. Directories. Statistics.
671 -	688	Flight training.
691 -	697	Aeronautics as a profession.
	731	Standards. Accreditation. Curricula.

AERONAUTICAL SCHOOLS (EXCLUDING MILITARY)

851 -	855	General works. Directories. Histories.
871 -	995	Treatises and Histories, by place.

FLIGHT TECHNIQUE

	TLC	
3 -	7	General works.
11 -	23	Fixed wing craft.
31 -	51	Aerobatics.
61 -	71	Races. Competitions.
101 -	167	Gliders. Seaplanes. Rotary wing craft. Jet planes. Rocket planes.
171 -	215	Special techniques. Special employment of aircraft.
231 -	244	Aerostats. Airships. Balloons.

OUTLINE

AVIATION AND SPACE MEDICINE

TLC	
261 - 279	Aviation medicine.
280 - 285	Space medicine.
291 - 298	Aviation physical standards. Hygiene.

AIR NAVIGATION. METEOROLOGY

321 - 363	Air navigation.
401 - 599	Aircraft instruments.
601 - 611	Flight engineering.
621 - 659	Meteorology (Aeronautical aspects only).
671 - 695	Aviation communications. Signalling. (Nonmilitary).
711 - 785	Accidents. Safety measures and appliances. Parachutes.

801 - 893	AVIATION LAW (CIVIL)
-----------	----------------------

AERONAUTICAL ENGINEERING

TLD	
3 - 38	General works. History.
41 - 165	Research. Wind tunnels.
181	Natural flight.

AERODYNAMICS, APPLIED AND EXPERIMENTAL

201 - 211	General works. Theory of flight.
214 - 307	Flow of gases.
311 - 405	Airfoils.

AIRCRAFT DESIGN. TYPES (NONMILITARY)

451 - 505	General works. Stability. Aeroelasticity.
508 - 617	Aircraft structures. Aircraft materials. Nonaerodynamic parts.
621 - 961	Aircraft types. Model aircraft. Airships. Balloons. Kites.

AIRPORT DESIGN AND CONSTRUCTION

1021 - 1147	General works. Buildings. Areas.
1215 - 1455	Heliports. Seaplane bases. Airship hangars.

OUTLINE

AIRCRAFT ENGINES

- TLE
- 21 - 60.5 General works. Drawings. Patents. Systems.
 - 61 - 121 Reciprocating engines.
 - 203 - 363 Jet engines.
 - 371 - 441 Helicopter engines. Airship engines. Model aircraft engines.
 - 471 - 497 Engine materials. Engine mountings.

ROCKETS (AERONAUTICS AND ASTRONAUTICS). ROCKET PROPULSION

- 501 - 503 General works. History. Congresses. Dictionaries.
Encyclopedias.
- 505 - 518 Special types of rockets and propulsion.
- 521 - 531 Special models and uses of rockets.
- 551 - 583 Fuels, equipment, manufacturing and testing of rockets.

ASTRONAUTICS. SPACE FLIGHT

- 1021 - 1031 General. History. Biography. Dictionaries. Study and teaching.
- 1032 - 1035 Astrodynamics. Research.
- 1036 - 1121 Aerospace industries. Space projects.
- 1123 - 1490 Space vehicles. Space stations.
- 1500 - 1575 Life support systems.
- 3000 - 3285 Astrionics. Telecommunication. Guidance and control systems.
- 4000 - 4040 Ground support systems. Operations and equipment.

COMMERCIAL AND INDUSTRIAL AERONAUTICS

- TLF
- 101 - 121 General works.

AIRCRAFT MANUFACTURE. PRODUCTION. TRADE

- 127 - 501 General works. Allied industries. Engine manufacture. Aircraft
and engine accessories manufacture.
- 601 - 1201 Factories. Operations. Manufacturing processes.

AIRLINES. AIR TRANSPORT INDUSTRY

- TLO
- 21 - 131 General works. Special airlines.

OUTLINE

AIRLINES, AIR TRANSPORT INDUSTRY (Continued)

- TLG
141 - 257 Airline operation and management. Passenger service. Freight service.
351 - 461 Airport operation and management. Traffic control.
1221 - 1847 Airways. Air routes. Flying directions. Air pilot guides.

MILITARY AERONAUTICAL ART AND SCIENCE

- UGB
3 - 291 General works. Museums. Biography.
517 - 731 Military aeronautical education and training. Theory. Methodology.

MILITARY AERONAUTICAL SCHOOLS

- 741 - 745 General works.
751 - 887 U. S. Air Force Academy. Academic, airmanship, athletic activities. Cadet life and activities.
901 - 921 U. S. Air University. Air War College.
1161 U. S. Bombardier Schools. Pilot Training Schools.
2502 - 9051 Other countries.

AIR FORCES, MILITARY AIRCRAFT, AIR BASES

- UGH
21 - 1741 General works. U. S. Dept. of the Air Force. Air Commands.
2117 - 5291 Military aircraft. (Excluding Naval, Marine Corps, Coast Guard).
5307 - 5445 Air bases. Air Forces expenditures.
5501 - 5545 Air Forces Reserves. USAF Continental Air Command.
5607 - 5641 Air Force Research. USAF Systems Command.

AIR FORCES ADMINISTRATION, PERSONNEL, LAWS, MAINTENANCE

- UGJ
21 - 93 Administration. Ceremonies.
141 - 687 Personnel. Recruiting. Recreation activities. Musical activities. Athletic activities. Religious activities.
711 - 921 Laws and regulations. Discipline. Prisons.
1012 - 1807 Air Forces maintenance. Supplies. Logistics. Transportation. Communications. Medical Services.

OUTLINE

AIR WARFARE, AIR POWER, AVIATION GUNNERY

UGK

- 21 - 625 General works. Air tactics. Air rescue. Air defenses. Civil defense.
821 - 1603 Aviation ordnance. Missiles. Guided missiles. Gunnery.

NAVAL AERONAUTICAL SCIENCE AND TECHNOLOGY

VGB

- 3 - 291 General works. Biography.
535 - 571 Naval aeronautical education and training.
741 - 1552 Naval aeronautical schools. Marine Corps aeronautical schools. Coast Guard aeronautical schools.

NAVAL AIR FORCES

VGH

- 21 - 1851 General works. Marine Corps air forces. Coast Guard air forces.
2127 - 5299 Naval aircraft. Marine Corps aircraft. Coast Guard aircraft.
5307 - 53-3 Naval air bases. Stations.

NAVAL AIR WARFARE

VGK

- 21 - 41 General works.
1031 - 1081 Naval missiles and rockets.

AERONAUTICAL SCIENCE AND TECHNOLOGY GENERAL WORKS

Military aeronautical science and technology, see UGB 3-291.
 Naval aeronautical science and technology, see VGB 3-291.
 Marine Corps aviation, see VGB 3-291.
 Coast Guard aviation, see VGB 3-291.
 Astronautical science and technology, see TLE 1021-4045.
 Rocket science and technology, see TLE 501-583.

TLB

3

SOCIETIES, ASSOCIATIONS, CLUBS, GENERAL INTERNATIONAL.

Cf. TLB 663 Aeronautical education associations.
 TLD 3 Aeronautical engineering societies.
 TLF 127 Aeronautical manufacturers' associations.
 UGJ 485 Air Force associations.
 TLG 21 Airline associations.
 TLE 1021 Astronautical societies.
 TLC 261 Aviation medicine associations.
 TLC 101 Glider clubs.
 TLE 501 Rocket societies.
 TLC 281 Space medical associations.

7 United States.
 14 Great Britain.
 21 France.
 28 Italy.
 33 Germany.
 41 Russia.
 43 China.
 51 Other countries. A-Z, by name of country.

.E3 Egypt.

.S9 Switzerland.

61 CONVENTIONS, CONGRESSES, CONFERENCES, SYMPOSIA.

Cf. TLB 664 Aeronautical education conferences.
 TLD 5 Aeronautical engineering symposia.
 TLF 131 Aeronautical manufacturers' meetings.
 TLG 24 Airline conventions.
 TLE 1021.3 Astronautical symposia.
 TLC 263 Aviation medicine symposia.
 TLC 104 Glider conventions.
 UGB 35 Military aeronautical meetings.
 UGB 517 Military aeronautical educational meetings.
 TLE 501 Rocket symposia.
 TLC 282 Space medicine symposia.

MUSEUMS.

Cf. UGB 45 Military aeronautical museums.
 71 General works.
 75 Special museums.

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Military libraries, see Z 675.M5.

U. S. Air Force Academy Library, see UGB 809.

U. S. Air University Library, see UGB 907.L6.

EXHIBITIONS, AVIATION SHOWS.

81 General works.

TLB

AERONAUTICAL SCIENCE AND TECHNOLOGY GENERAL WORKS

TLB

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- 145 Aeronautical endowments. Awards.
Air Forces awards, see UGJ 451.
Air Force Academy awards, see UGB 851.
- 151 Philosophy of aviation.
- 155 Collected works.
If topical, prefer subject.
- 157 Scrapbooks.
Aeronautics in art, see N 8217.A4.
Aeronautics in literature, see PN 6071.A2.
Aeronautical philately, see HE 6183.
- 165 Aeronautical facetiae. Cartoons. Caricatures.

DICTIONARIES.

- Astronautical dictionaries, see TLE 1029.
- Military aeronautical dictionaries, see UGB 171.
- 171 English.
- 176 Single language other than English. A-Z, by language.
.G3 German.
- Bilingual and polyglot, see P schedule.

ENCYCLOPEDIAS.

- Astronautical encyclopedias, see TLE 1029.
- Military aeronautical encyclopedias, see UGB 171.
- 191 English.
- 194 French.
- 197 German.
- 198 Russian.
- 199 Chinese.
- 201 Other languages. A-Z, by name of language.
- AERONAUTICAL NOMENCLATURE. TERMINOLOGY. GLOSSARIES.
- 219 English.
- 221 Single language other than English. A-Z, by language.
Bilingual and polyglot, see P schedule.
- 222 Abbreviations. Symbols.

227 REGISTERS. DIRECTORIES. YEARBOOKS. GENERAL.

- Cf. TLB 667 Aeronautical educational registers, etc., Aeronautical school directories (nonmilitary), see TLB 853.
- UGJ 141-161 Air Forces personnel registers.
- UGB 912 Air University registers, etc.
- TLD 451 Aircraft registers.
- TLE 27 Aircraft engine registers.
- TLF 231-251 Aircraft manufacturers' registers, etc.
- TLG 32 Airline directories.
- TLG 351 Airport directories.
- TLE 1024 Astronautical registers, etc.
- TLB 254 Historical yearbooks.
- UGH 2117 Military aircraft registers.
- UGH 212 U. S. Air Force registers. General.
- UGB 786 U. S. Air Force Academy registers, etc.

TLB

AERONAUTICAL SCIENCE AND TECHNOLOGY
GENERAL WORKS

TLB

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- 237 United States.
240 Great Britain.
243 France.
245 Other countries and areas. A-Z, by name.
 .A8 Asia.
 .G37 Germany.
 .N45 New Zealand.
- HISTORY.
- 251 Military aeronautical science and technology, histories, see UGB 3-19.
General histories.
254 Historical yearbooks.
 Cf. TLB 227-245, Yearbooks of current events.
258 Pictorial histories.
 Cf. TLB 414, Pictorial treatises.
Historical atlases, see G 1046.P6.
Myths, Folklore, Legends, see GR 950.A2.
273 Special historical balloon ascensions.
 General balloon histories.
 Balloon flight technique, see TLC 241-244.
 Balloon design and engineering, see TLD 931-937.
 Military balloons, see UGH 3157.
285 Special historical airship and airplane flights. Speed records. Altitude records.
 General airship histories, see TLD 901
 General aircraft histories, see TLB 251.
290 Biography, individual. A-Z, by name of biographee.
 Cf. TLE 1023, Astronautical personnel; TLE 1057, Astronauts and cosmonauts; UGB 291, Military aeronautical personnel; VGB 291, Naval aeronautical personnel.
 C38 Cayley.
 C67 Cody.
 C98 Curtiss.
 D32 De Havilland.
 D73 Douglas.
 E12 Earhart.
 F65 Fokker.
 L52 Lehmann.
 L74 Lindbergh.
 M38 Martin.
 S13 Saint-Exupéry.
 S23 Santos-Dumont.
 U1 Udet.
 V94 Von Kármán.
 W95 Wright.
 Z5 Zeppelin.
291 Biography, collective.
 Cf. TLE 1022 Astronautical personnel.
 TLE 1056 Astronauts and cosmonauts.
 UGB 290 Military aeronautical personnel.
 VGB 290 Naval aeronautical personnel.

TLB

AERONAUTICAL SCIENCE AND TECHNOLOGY GENERAL WORKS

TLB

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- 301 Continents. Areas. A-Z.
By country.
United States.
- 311 General.
- 312 Local. By name of region, state, city, A-Z.
.C1 California.
.I2 Illinois.
.N8 North Carolina.
- 318- 319 Great Britain. Arrange as 311-312.
- 326- 327 France. Arrange as 311-312.
- 333- 334 Italy. Arrange as 311-312.
- 341- 342 Germany. Arrange as 311-312.
- 348- 349 Russia. Arrange as 311-312.
- 353- 354 China. Arrange as 311-312.
- 371 Other countries, A-Z.
.C2 Canada.
.C5 Chile.
.J3 Japan.

BIBLIOGRAPHIES, see Z 5063-5065.

Aeronautics in agriculture, bibliography, see Z 5074.A4.

Air raids bibliography, see Z 6724.A3.

Women in aeronautics, bibliography, see Z 7963.A3.

Military aeronautics, bibliography, see Z 6724.A2.

GENERAL TREATISES ON AERONAUTICS.

Military aeronautics, see UGB 3-19.

Naval aeronautics, see VGB 3-7.

- 400 Early to 1920.
- 401 1920-1950.
- 404 1950-
- 411 Popular works.
- 414 Pictorial works.
Cf. TLB 258, Pictorial histories.
- 417 Juvenile works (Nonfiction).
- 418 Juvenile works (Fiction).
- 541 By region, A-Z.
By country.
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- 571 Great Britain.
- 591 France.
- 611 Italy.
- 631 Russia.
- 641 China.
- 661 Other countries, A-Z.
.A9 Australia.
.G3 Germany.
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TLB

**AERONAUTICAL EDUCATION AND TRAINING
(EXCLUDING MILITARY)**

TLB

- Military aeronautical education and training, see UGB 517-731.
- Naval aeronautical education and training, see VGB 535-571.
- 663 Societies. Associations.
- 664 Conventions. Congresses. Conferences. Symposia.
- 665 Theory. Philosophy.
- 666 **GENERAL WORKS. TREATISES.**
- 667 Directories. Registers. Yearbooks.
- Bibliography, see Z 5064.E4.
- 669 Statistical works.
- 671 **FLIGHT TRAINING.**
 - Private flying, see TLD 716.
 - Test piloting, see TLF 335.
 - Bibliography, see Z5064.P6.
 - Flight technique, see TLC 3-244.
 - Military flight training, see UGB 1161.P6.
 - Flight training at Air Force Academy, see UGB 844.F6.
 - Space flight training, see TLE 1054.
 - Audio-visual methods.
 - 673 Training Films.
 - 675 Other. By name, A-Z.
 - 677 .R2 Radio.
 - .T3 Television.
 - Trainer aircraft, see TLD 725.
 - Military trainer aircraft, see TWH 2181.
 - 681 Link trainer. Flight simulators.
 - Space flight simulators, see TLE 1570.
 - 683 Other methods. Apparatus.
 - 686 Examinations. Questions. Problems. Exercises.
 - 688 Licenses and certification of personnel.
 - 691 **AERONAUTICS AS A PROFESSION.**
 - Astronautics as a profession, see TLE 1025.
 - Air Force as a profession, see UGJ 391.
 - Bibliography, see Z 5064.P7.
 - 693 Women in aeronautics.
 - Bibliography, see Z 7963.A3.
 - Women in Air Forces, see UGJ 341.
 - 695 Negroes in aeronautics.
 - 697 Other groups. A-Z.
 - 731 Standards. Accreditation. Curricula.

**AERONAUTICAL SCHOOLS
(EXCLUDING MILITARY)**

- Military aeronautical schools, see UGB 741-9051.
- Naval aeronautical schools, see VGB 741-1552.
- 851 **GENERAL WORKS.**
- 853 Directories. Yearbooks. Catalogs.
- 855 Histories, general.

TLB

**AERONAUTICAL SCHOOLS
(EXCLUDING MILITARY)**

TLB

Treatises. Histories. By location.

United States.

General.

By name of school, A-Z.

Great Britain. Arrange as 871-872.

France. Arrange as 871-872.

Italy. Arrange as 871-872.

Germany. Arrange as 871-872.

Russia. Arrange as 871-872.

China. Arrange as 871-872.

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875- 876
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885- 886
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991- 992
995

FLIGHT TECHNIQUE

TLC

Space flight, see TLE 1021-9000.

GENERAL WORKS.

- 3 Treatises.
- 5 Popular works.
- 7 Juvenile works.
- Flight texts, see TLB 671.
- Bibliography, see Z 5064.P6.

FIXED WING CRAFT.

- Cf. TLB 671-683 Flight training.
- TLC 101-112 Glider technique.
- TLC 161-165 Jet plane technique.
- TLD 716 Private flying.
- TLC 167 Rocket plane technique.
- TLC 131-133 Seaplane technique.
- TLF 335 Test piloting.
- 11 Functions and operation of controls.
 - Controls design and engineering, see TLD 351-359.
 - Stability and control in aircraft design, see TLD 491.
- 14 Take-off. Landing.
 - Cf. TLC 133 Seaplane technique.
 - TLC 163 Vertical take-off and landing.
 - Jet assisted take-off, see TLE 363.
 - Rocket assisted take-off, see TLE 532.
- 17 Turning. Banking. Coordination of elevators, rudder, ailerons, flaps.
- 19 Slipping. Skidding.
- 21 Climbing.
- 23 Stalling and recovery.

AEROBATICS.

- 31 General works.
- 33 Diving.
- 35 Looping.
- 37 Inverted flying.
- 39 Spin and recovery.
- 41 Falling leaf.
- 43 Other maneuvers. By name. A-Z.
 - .I6 Immelman turn.
 - .P9 Precision flying.

- 51 Aerobatic shows and exhibitions.

RACING. COMPETITIONS.

- Cf. TLC 107 Glider competitions.
- TLC 244 Balloon races.
- 61 General works.
- 65 Rules.
- Racing planes, see TLD 721.
- 71 Special races.
- Special historical flights, see TLB 285.

GLIDERS. SAILPLANES. SOARING PLANES.

- Military gliders, see UGH 3137.
- 101 Societies. Associations. Clubs.
- 104 Conventions. Conferences.

TLC

FLIGHT TECHNIQUE

TLC

GLIDERS. SAILPLANES. SOARING PLANES. - Continued

- 107 Competitions.
- 112 General works. History. Description. Design.
Catapults, see TLD 1121.
Bibliography, see Z 5064.G55.
- 131 SEAPLANES. FLYING BOATS. (TECHNIQUE ONLY).
Design and engineering, see TLD 771-791.
Military seaplanes, see UGH 3107.
Naval seaplanes, see VGH 2127-5299.
- 133 Mooring. Anchoring. Take-off. Landing.
ROTARY-WING CRAFT (TECHNIQUE ONLY).
Design and engineering, see TLD 801-821.
Military rotary-wing craft, see UGH 3121.
Naval rotary-wing craft, see VGH 2127-5299.
- 141 General works.
- 145 Helicopters.
Helicopter engines, see TLE 371-391.
- 147 Autogiros.
- 155 Other, A-Z.
- JET PLANE TECHNIQUE.
Design and engineering, see TLD 710
- 161 General works.
- Jet aircraft engines, see TLE 203-363.
- 163 Vertical take-off and landing.
Vertically rising aircraft, see TLD 729.
- 165 Use of jets as brakes.
- 167 ROCKET PLANE TECHNIQUE.
Design and engineering, see TLD 724.
Rocket plane engines, see TLE 505-518.
- SPECIAL FLIGHT TECHNIQUES.
- 171 Transonic and supersonic flying.
Speed records, see TLE 285.
Space flight, see TLE 1070.
- 173 Stratosphere flying.
Altitude records, see TLE 285.
- 175 Oxygen apparatus for fliers.
Anoxemia, see TLC 277.
- 181 Flying in extreme cold.
Physiological aspects of flight, see TLC 271.
- 185 Refueling in flight.
Fueling planes, see TLD 707.
- 191 Other.
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805 Special violations. Offenses. Crimes. Misdemeanors.

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814 U. S. Federal Aviation Agency. 1958- . (U. S. Civil Aeronautics Administration. 1940-1958. U. S. Civil Aeronautics Authority. -1940.)

817 U. S. Civil Aeronautics Board.

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- 3 Societies. Associations. Clubs.
- 5 Congresses. Conferences. Symposia.
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- 7 Directories. Registers. Yearbooks.
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 - 528 Other stresses.
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- Temperature gages, see TLC 531-541.
- 60 Ignition systems.
- Aircraft electric systems, see TLD 615.
- Reciprocating engines, see TLE 85.
- Jet engines, see TLE 265.
- Starters.
- Auxiliary power units.
- 61 **RECIPROCATING ENGINES.**
- Reciprocating engine instruments, see TLC 501-541.
- 64 Fuel systems.
- 66 Carburetors and carburetion. Master control units.
- 68 Direct fuel injection. Water injection.
- 71 Lubrication systems.
- 76 Induction and exhaust systems.
- 78 Superchargers.
- 81 Cooling systems.

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- 82 Air cooling.
- 83 Liquid cooling.
- 85 Ignition systems.
- Engine parts.
- 103 Pistons. Cylinders.
- 104 Bearings.
- 108 Other parts. By name, A-Z.
 - .C7 Crankshafts.
 - .V2 Valves.
- 112 Diesel engines.
- 121 Special engine models. By name of manufacturer, A-Z.
 - A73 Armstrong Siddeley.
 - B35 Bayerische Motoren-Werke (BMW).
 - C62 Clerget.
 - G57 Gnome.
 - H65 Hirth.
 - H67 Hispano-Suiza.
 - P11 Packard.
- 203 JET ENGINES.
 - Jet engine instruments, see TLC 561-571.
 - Jet planes, see TLD 710.
 - Jet flight technique, see TLC 161.
- 205 Fuel Systems
- 207 Combustion.
- 225 Induction and exhaust systems.
- 231 Gas turbines.
- 233 Compressors.
- 237 Afterburners.
- 245 Lubrication systems.
- 255 Cooling systems.
- 265 Ignition systems.
- Special types of jet engines.
- 301 Turbojet engines.
- 321 Ram-jet engines.
- 331 Pulse-jet engines.
- 341 Compound engines (jet and reciprocating).
- 351 Other jet types.
- 361 Special jet engine models. By manufacturer, A-Z.
- 363 Special uses of jet engines.
 - Jet assisted take-off.
 - Mechanical devices for assisted take-off, see TLD 1123.
 - Rocket assisted take-off, see TLE 532.
- 371 HELICOPTER ENGINES.
- 375 Reciprocating engines.
- 381 Rotor assemblies. Drives.
- 391 Jet-driven rotors and assemblies.
- Helicopters, see TLD 809.
- Flight technique, see TLC 141-155.
- 421 Airship engines.

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- Airships, see TLD 901-921.
- 441 Engines for model aircraft.
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- 471 ENGINE MATERIALS.
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Rocket engine materials, see TLE 581.
Space vehicle propulsion materials, see TLE 581.
- 481 Special materials. By name, A-Z.
- 495 Engine vibration. Mounting. Housing.
- 497 Special types of mounting. Pod. Pylon.

ROCKETS (AERONAUTICS AND ASTRONAUTICS).
ROCKET PROPULSION

Prefer for works combining rockets (aeronautics and astronautics) and rockets (ordnance).

Bibliography, see Z 5064.R6.

Guidance and control, see TLE 3250.

Launch complexes and facilities, see TLE 4020.

Rocket aerodynamics, see TLD 221, TLE 1032.

Rocket engine instruments, see TLC 575.

Rocket planes, see TLD 724, TLC 167.

Rockets and missiles (military use), see UGK 1031.

Rockets and missiles (naval use), see VGK 1031.

Rockets, ordnance, see UF 820, VG 93.

Signaling rockets, see TLC 693.

Space vehicles, see TLE 1123.

Telemetry, see TLE 3270.

- 501 Societies. Associations. Congresses. Symposia.
e.g. U. S. George C. Marshall Space Flight Center, Huntsville, Ala.
See TLD 75, U. S. National Aeronautics and Space Administration.
See UGH 5614, U. S. Office of Aerospace Research.

- 502 Dictionaries. Encyclopedias.

- 503 GENERAL WORKS. HISTORY. TREATISES.

- .5 Popular and juvenile works.

- .6 Handbooks.

- .7 Amateurs' manuals.

- .8 Biography.

- .9 Rocketry as a profession.

SPECIAL TYPES OF ROCKETS AND PROPULSION.

- 505 Chemical rockets and chemical propulsion systems.
- 506 Liquid propellant rockets.
- 507 Solid propellant rockets.
- 508 Hybrid rockets.
- 509 Nuclear rockets and propulsion systems.
- 510 Electromagnetic rockets and propulsion systems.
- 511 Photon rockets and propulsion systems.
- 512 Plasma rockets and propulsion systems.
- 513 Ion rockets and propulsion systems.

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- 514 Hot water rockets and propulsion systems.
- 515 Radiation rockets and propulsion systems. (Solar wind kites or sails, etc.)
- 518 Special topics, A-Z.
 - .C6 Combustion.
 - .C63 Controls.
 - .E4 Electronics.
 - .E9 Expansion joints.
 - .F8 Fuel systems.
 - .N65 Nozzles.
 - .S7 Stability.
 - Cf. Stability of aircraft, TLD 491.
- 521 Special models of rockets. By name. A-Z.
 - .B6 Blue streak rocket.
 - .C3 Centaur rocket.
- 525 Special uses of rockets, A-Z.
 - .S6 Sounding rockets.
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 - Jet assisted take-off, see TLE 363.
 - Signaling rockets, see TLC 693.
- 531 Guided missiles.
 - Military missiles and rockets, see UGK 1031.
 - Naval missiles and rockets, see VGK 1031.
- 551 Fuels, propellants, oxidants.
- 553 Cooling systems.
- 555 Radar equipment.
 - Cf. Communication methods and equipment in space vehicles, TLE 3025.
- 570 ROCKET INDUSTRIES.
- 580 Manufacturing.
 - .1 Manufacturing processes (specific to aerospace industry.)
- 581 Materials.
- 583 Testing of systems.

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Artificial satellites in meteorology, see QC 879.5.
 Artificial satellites in telecommunications, see TK 5101, HE 9719.
 Astronomical photography, see QB 121.
 Astrophysics, see QB 461.
 Bibliography, see Z 5064.S7.
 International cooperation, see JX 1995.
 Life on other planets, see QB 54.
 Military astronautics, see UGK 1012, 1031.
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 Propulsion systems for space vehicles, see TLE 505.
 Space chemistry, see QB 465.
 Space flight in literature, see PZ 3.
 Space law, see JX 5810.

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- 1021 Societies. Associations.
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- .3 Congresses. Symposia.
- 1022 Collective biography.
- 1023 Biography. By name, A-Z.
.B82 Braun.
.G57 Goddard.
.K5 Kincheloe.
- 1024 Registers. Directories. Yearbooks.
- 1025 Astronautics as a profession.
Aeronautics as a profession, see TLB 691.
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- 1026 Study and teaching.
- 1027 Addresses. Essays. Lectures.
- 1028 Textbooks.
- .1 Handbooks, manuals.
- 1029 Dictionaries. Encyclopedias.
- 1030 Popular, juvenile and pictorial works.
GENERAL WORKS. TREATISES. HISTORY.
- 1031 U. S. and general.
.5 Russia.
.7 Other countries, A-Z.
- 1032 Astrodynamics. Flight mechanics.
Cf. Celestial mechanics, QB 351; supersonic flow of gases, TLD 221.
- 1034 Space trajectories. Orbits.
Cf. Orbital rendezvous, TLE 1075; reentry, TLE 1080.
- 1035 Research.
.2 Equipment. Laboratories.
.3 U. S. Robert H. Goddard Space Flight Center, Greenbelt, Md.
.5 Special institutions, A-Z.
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See TLE 1053.3, U. S. Manned Spacecraft Center.
See TLD 75, U. S. National Aeronautics and Space Administration.
See TLE 501, U. S. George C. Marshall Space Flight Center.
- 1036 Aerospace industries.
- 1037 Astronautics and civilization.
- 1041 Imaginary space voyages.
- 1050 Space projects.
- 1051 By name, A-Z.
.A6 Apollo.
.G3 Gemini.
.M5 Mercury.
.V2 Vanguard.
- 1053 Manned space flight, general. (Specific problems to be classified in areas concerned, e. g., reentry, life support systems, etc.)
.3 U. S. Manned Spacecraft Center, Houston, Texas.
- 1054 Space flight training.
Cf. Test and training equipment, TLE 1570.
- 1055 Astronauts. Qualifications. Medical examinations.
Cf. Aviation medicine, TLC 280.

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- 1056 Astronauts. Cosmonauts. Collective biography.
- 1057 Astronauts. Cosmonauts. Individual biography, A-Z.
 - .G13 Gagarin.
 - .G55 Glenn.
 - .T62 Titov.
- 1058 Animals in space research.
- 1070 Operation of space vehicles. Piloting.
- 1075 Orbital rendezvous.
 - Cf. Orbits, TLE 1034.
- 1080 Reentry. (Heating, shock waves, deceleration, attitude control, etc.)
 - Cf. Reentry communications, TLE 3028; attitude control systems, TLE 3260.
- 1121 Artificial satellites.
 - In telecommunication, see TK 5101, HE 9719.
 - In geodesy, see QB 343.
 - In meteorology, see QC 879.5.
 - Bibliography, see Z 5064.A7.
- SPACE VEHICLES.
- 1123 General works.
- 1124 Spacecraft materials.
- 1125 Manufacturing.
- 1126 Space vehicle design and construction. Airframes.
 - .1 Reliability.
 - .3 Thermodynamics. Heat engineering.
- 1127 Systems engineering. General works.
- 1130 Flying saucers. Unidentified flying objects.
- 1140 Outer space travel and exploration.
- 1141 Moon.
- 1143 Moon cars.
- 1151 Mars.
- 1161 Venus.
- 1191 Minor planets, planetoids.
- 1200 Electric equipment on space vehicles. General works.
- 1202 Special, A-Z.
 - .G4 Generators.
 - .T4 Thermoelectric devices.
- 1300 SPACE STATIONS.
- 1490 Radiation shielding on space vehicles.
- LIFE SUPPORT SYSTEMS. HUMAN ENGINEERING. HUMAN ENVIRONMENT. EQUIPMENT AND TESTING.
- 1500 General works.
- 1530 Cabin atmospheres.
- 1550 Space suits.
- 1570 Test and training equipment.
 - Cf. Space flight training, TLE 1054.
- 1575 Weightlessness simulators.
- ASTRONAUTICS
- 3000 Periodicals. Societies. Symposia.
- 3001 General works.
- TELECOMMUNICATION, GUIDANCE, AND CONTROL SYSTEMS FOR SPACE VEHICLES. COMMUNICATION METHODS AND EQUIPMENT.
 - Cf. Artificial satellites in communication, TK 5101.
- 3025 General.

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- 3028 Reentry communications. Plasma sheath effects.
Cf. Reentry, TLE 1080.
- 3035 Radio.
- 3250 Navigation systems. Guidance systems. General.
- 3251 Theory of navigation.
- 3252 Inertial navigation systems.
- 3260 Attitude control systems.
- 3270 Data collection, transmission, processing systems. Telemetry.
- 3271 Instruments.
- 3272 Telemetering equipment.
- 3273 Data storage, including computer programs.
- 3280 Command control systems and equipment.
Tracking, see TLE 4030.
- 3285 Mobile facilities.

GROUND SUPPORT SYSTEMS, OPERATIONS, AND EQUIPMENT.

- 4000 Periodicals. Societies.
- 4015 General works. Treatises.
- 4020 Launch complexes and facilities. General works.
- 4024 Planning, location.
- 4027 Special by use, A-Z.
- 4030 Space tracking.

COMMERCIAL AND INDUSTRIAL AERONAUTICS

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- Bibliography, see Z 5064.C7.
- Aerospace industries, see TLE 1036.
- Rocket industries, see TLE 570.
- Airlines, see TLG 21-461.
- Airways, see TLG 1221-1847.
- Military air transportation, see UGJ 1303-1337.
- 101 GENERAL WORKS.
- 121 Special aspects of the general subject.

AIRCRAFT MANUFACTURE. PRODUCTION. TRADE

- Aerospace industries, see TLE 1036.
- Rocket industries, see TLE 570.
- Aircraft design, see TLD 451-561.
- 127 Associations. Societies.
- 131 Conventions. Congresses. Symposia.
- Directories. Registers. Yearbooks.
- 231 General.
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- 237 France.
- 241 Italy.
- 243 Germany.
- 245 Russia.
- 247 China.
- 251 Other countries. By name, A-Z.
- HISTORIES.
- 271 General.
- 273 United States.
- 283 Other countries. By name, A-Z.
- .G78 Great Britain.
- 301 General works.
- 307 Statistical works.
- 314 Laws and regulations.
- 318 Costs. Estimates.
- 321 Contracts.
- 331 Inspection of aircraft. Inspectors.
- 335 Flight testing. Evaluation. Analysis.
- 341 Aircraft maintenance and repairs.
- ALLIED INDUSTRIES.
- Aerospace industries, see TLE 1036.
- Rocket industries, see TLE 570.
- 351 Airship manufacture. Production. Trade. Maintenance.
- Airship design, see TLD 901.
- 371 Balloon manufacture. Production. Trade.
- 375 Maintenance and repair of balloons.
- Balloon design, see TLD 931.
- 391 Aircraft parts manufacture. Production. Trade. Maintenance.
- 395 Manufacturers' catalogs of parts.
- 451 Aircraft engine manufacture. Production. Trade.

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- 471 Engine repair. Rebuilding.
- 501 Aircraft and engine accessories: manufacture, production, trade, maintenance.
- 507 Manufacturers' catalog of accessories.
- 601 FACTORIES.
- 604 Location. Site requirements.
- 608 Underground factories.
- 612 Transportation facilities.
- 614 Drawings. Plans. Specifications. Costs.
- 621 Buildings. Shops.
- 626 Heating. Lighting. Ventilation.
- 631 Air raid precautions.
- 641 Accidents and accident prevention. Safety procedures.
- 651 Special manufacturing plants. By name, A-Z.
 - B41 Beech.
 - B67 Boeing.
 - G65 Goodyear.
 - H23 Handley Page.
 - H39 Hawker.
 - L81 Lockheed.
 - M38 Martin.
 - W52 Westland.
- 701 FACTORY OPERATION.
- 707 Organization and administration.
- 709 Financing.
- 712 Personnel. Employees.
- 717 Employment management. Relations.
- 721 Training.
- 724 Pay. Promotion. Retirement. Classification.
- 727 Recreational facilities.
- 731 Office and factory routines. Rules.
- 739 Departments.
 - Executive and administrative.
 - Clerical. Accounting.
 - Purchasing.
 - Sales. Advertising. Public relations.
 - Shipping. Delivery.
- 791 Security. Guards. Police.
- Libraries, see Z 675.F3.
- 905 Tools and tooling. Dies.
- 918 Maintenance and repair of tools.
- 921 Tolerance in machinery.
- 1003 MANUFACTURING PROCESSES.
- 1007 Mass production.
- 1019 Shop practice.
- 1021 Metal working processes.
 - Welding. Riveting. Brazing.
- 1151 Woodworking processes.
- 1171 Fabric processing.
- 1181 Plastics processing.
- 1191 Painting.
- 1201 Other processes.

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- Airports, see TLD 1021-1147, TLG 351-461.
- Airways, see TLG 1221-1847.
- Aircraft manufacture, see TLF 101-1201.
- Military Air Transportation Service, see UGJ 1311.
- 21 Associations. Societies.
- 24 Conventions. Congresses. Symposia.
- 32 Directories. Registers. Yearbooks.
- Bibliography, see Z 5064.A27.
- 41 GENERAL WORKS. HISTORIES.
- 44 By continents, areas, A-Z.
 - .A8 Australia.
 - .E9 Europe.
 - .P1 Pacific Area.
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 - 51 United States.
 - 61 Great Britain.
 - 65 France.
 - 71 Italy.
 - 75 Germany.
 - 81 Russia.
 - 91 Other countries. By name, A-Z.
 - .I3 India.
- 103 Statistical works.
- 131 Special airlines. Carriers. By name, A-Z.
 - .C7 Continental Air Lines, Inc.
 - .D4 Deutsche Luft Hansa A. G.
 - .F6 Flying Tiger Line, Inc.
 - .K8 K. L. M. Amsterdam-Batavia Line.
 - .P2 Pan American Airways.
 - .T7 Transocean Air Lines.
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- 141 AIRLINE OPERATION AND MANAGEMENT.
 - Airport operation and management, see TLG 351-461.
 - 146 Financing.
 - 149 Contracts.
 - 154 Connecting lines. Feeders.
 - 158 Laws and regulations affecting airline operation.
 - 163 Accounting. Records.
 - 168 Organisation. Staff. Personnel.
 - 171 Flying crews.
 - 177 Employee relations.
 - 181 Employee training.
 - 183 Pay. Promotion. Retirement.
 - 186 Working routines.
 - 191 Special employees.
 - Hostesses.
 - Mechanics.
 - 194 Employee uniforms. Airline insignia.
 - Military aircraft markings, see UGH 2141.
- 203 Public relations.
- 206 Advertising.
- 221 PASSENGER TRAFFIC.

AIRLINE OPERATION AND MANAGEMENT. - Continued

- Airport passenger services, see TLG 434-441.
- Military Air Transport Service, see UGJ 1311.
- 223 Rates. Fares. Reservations. Tickets.
- 225 Schedules. Timetables.
- 227 Air travel. Air tourism. Air travelers' handbooks.
- 229 Personal services to passengers.
- 231 Meal service on board aircraft.
- 234 Air taxis. Helicopter shuttle service.
- 242 Baggage. Allowance.
- 251 **FREIGHT AND EXPRESS LINES. CARGO CARRIERS.**
- Bibliography, see Z 5064.F8.
- Airport freight handling, see TLG 445.
- Military Air Transport Service, see UGJ 1311.
- 253 Special cargo.
- 255 Express.
- 257 Rates. Schedules.

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- Airport design and construction, see TLD 1021-1455.
- Bibliography, see Z 5064.A28.
- 351 Directories. Registers.
- 361 **GENERAL WORKS.**
- 364 Laws and regulations affecting airport operation.
- 368 Airport commissions and boards.
- 375 Contracts.
- 378 Concession leasing and operation.
- 382 Financing
- 387 Security. Guards. Police.
- 394 Air raid precautions.
- 396 Fire prevention.
- Fire prevention (other than at airports), see TLC 755-757.
- Fireproofing construction, see TLD 1057.
- 398 Staff organization. Personnel. Employees.
- 407 **AIRPORT TRAFFIC CONTROL.**
- Airways traffic, see TLG 1341.
- Bibliography, see Z 5064.T7.
- Control tower construction, see TLD 1087.
- 412 Communications.
- Airport facilities, see TLD 1075.
- 416 Signals and signaling.
- 419 Radio.
- 421 Radar.
- 427 Approach. Landing. Taxiing. Clearance. Dispatching. Take-off.
- 434 **PASSENGERS. ACCOMMODATIONS. SERVICES. CONTROL.**
- Waiting room facilities, see TLD 1077.
- Airline passenger services, see TLG 221-242.
- 437 Limousine service.
- 439 Service to remote jet-loading areas.

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- 441 Baggage receiving. Routing. Delivery.
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- 445 FREIGHT HANDLING.
Freight sheds, warehouses, see TLD 1114.
Airline freight services, see TLG 251-257.
- 451 Fueling and servicing.
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- 455 Runway maintenance and repairs.
- 457 Snow removal.
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- 461 Heliport operation and management.
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- Airlines, see TLG 21-257.
- 1221 Histories.
- 1237 GENERAL WORKS.
- 1241 By continents, special areas, A-Z.
.A8 Atlantic Ocean.
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1261 United States.
1266 Great Britain.
1271 France.
1276 Italy.
1281 Germany.
1286 Russia.
1291 Other countries. By name, A-Z.
- 1307 Law and legislation.
1312 United States.
1321 Other countries. By name, A-Z.
- 1341 TRAFFIC FLOW. STATISTICS.
Bibliography, see Z 5064.T7.
Airport traffic, see TLG 407.
- 1345 Control personnel. Organization.
- 1351 Traffic laws and regulations.
- 1361 Airway lighting.
Airport lighting, see TLD 1043-1053.
- 1364 Beacons (visual).
- 1367 Airway markers and marking.
- 1401 Radio ranges.
1407 Radio beacons.
1421 Omnidirectional range system.
1427 Stations. Installations.
1431 Transmitters.
1433 Antennas.
- 1441 Special airways, air routes, between designated terminals.
.D4 Denver-New York.
.N5 New York-Rome.

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- 1510 Flying directions. Air pilot guides.
- 1512 Arctic regions.
- 1517 Antarctic regions.
- 1521 North America.
- 1527 United States.
- 1529 Local. By name of locality, A-Z.
- 1531 Other areas, A-Z.
- 1561 South America.
- 1563 By areas, A-Z.
- 1611 Europe.
- 1618 Great Britain.
- 1641 France.
- 1645 Other areas, A-Z.
- 1751 Asia.
- 1755 By areas, A-Z.
- 1795 Africa.
- 1797 By areas, A-Z.
- 1821 Australia.
- 1825 By areas, A-Z.
- 1831 New Zealand.
- 1833 By areas, A-Z.
- 1841 Pacific Ocean area.
- 1843 By areas, A-Z.
- 1845 Atlantic Ocean area.
- 1847 By areas, A-Z.

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Naval aviation, see VGB 3-291.

Marine Corps aviation, see VGB 3-291.

Coast Guard aviation, see VGB 3-291.

Military aeronautical activities in a particular war, class with the war.

Aerial operations in World War II, see D785-792.

Nonmilitary aeronautical science and technology, see TLB 3-662.

Works including both military and nonmilitary aspects, prefer TLB 3-662.

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Nonmilitary museums, see TLB 71-75.

Libraries, see Z 675.M5.

Air Force Academy Library, see UGB 809.

Air University Library, see UGB 907.L6.

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Encyclopedias. Dictionaries.

BIOGRAPHY.

Nonmilitary aeronautical biography, see TLB 290-291.

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A86 Atcherley.

B37 Beaumont.

D69 Doolittle.

E9 Everest.

M68 Mitchell.

Y37 Yeager.

MILITARY AERONAUTICAL EDUCATION AND TRAINING

Works including both military and nonmilitary aspects, prefer TLB 663-731.

Nonmilitary aeronautical education and training, see TLB 663-731.

Naval aeronautical education and training, see VGB 535-1552.

517

Conferences. Meetings. Symposia.

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UGH 2181.

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- 557 Medical Service School.
USAF Recruiting Service, see UGJ 363.
- 571 Great Britain.
- 591 France.
- 611 Italy.
- 631 Russia.
- 661 Other countries. By name, A-Z.
- 671 Methodology. Manuals.
- 673 Visual methods.
- 675 Training films.
- 677 Others. By name.
 - .T3 Television.
- 686 Examinations. Questions.
Air Force Academy examinations, see UGB 817-822.
- 731 Standards. Curricula.
Air Force Academy curricula, see UGB 812.

MILITARY AERONAUTICAL SCHOOLS

Works covering both military and nonmilitary schools, prefer TLB 851-995.

Nonmilitary aeronautical schools, see TLB 851-995.

Naval aeronautical schools, see VGB 741-1552.

- 741 General works.
- 745 U. S. AIR FORCE SCHOOLS.
U. S. AIR FORCE ACADEMY.
 - 751 History.
 - 756 Founding. Site selection. U. S. Air Force Academy Planning Board.
 - 763 General works.
 - 766 Guide books. Tourists' handbooks.
 - 769 Maps.
 - 771 Pictorial works.
 - 776 Regulations.
 - Registers.
 - 782 Official.
 - 784 Nonofficial.
 - 786 Directories.
 - 787 Catalogs.
 - 788 Reports. By name of reporting body or official.
 - .A1 Academic Advisory Committee.
 - .B6 Board of Visitors.
 - .N8 North Central Association of Colleges and Secondary Schools.
- 791 Addresses. Graduation and others.
Thomas D. White National Defense Award Presentation.
- 792 FACILITIES.
- 793 By name, A-Z.
 - .A5 Aeronautics Laboratory.

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- .A7 Arnold Hall.
- .C2 Cadet Chapel.
- .C4 Cadet Gymnasium.
- .C7 Community Center.
- .D7 Douglass Valley Community.
- .F2 Fairchild Hall.
- .F3 Falcon Stadium.
- .F4 Farish Memorial.
- .H2 Harmon Hall.
- .H8 Hospital.
- .M6 Mitchell Hall.
- .P6 Pine Valley Community.
- .P7 Planetarium.
- .S4 Service and Supply Area.
- .V2 Vandenberg Hall.

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- .F2 Falcon Foundation Scholarships.
- .G3 Gertrude Skelly Trust Fund Scholarship.
- .H5 General Henry H. Arnold Educational Fund Scholarship.

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	.M4	Mechanics.
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.3		Application procedures. Recruiting.
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842		Airmanship training.
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 - .A2 Academic Instructor School Series.
 - .A4 Air War College.
 - .A6 Aerospace Studies Institute.
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- .D63 Documentary Research Division.
- .E2 Educational Requirements Board.
- .E9 Extension Course Institute. Gunter AFB.
- .H6 Historical Division. Studies.
- .H9 Human Resources Institute
- .I4 AF Institute of Technology. Wright-Patterson AFB.
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- .R4 Research Studies Institute.
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- .S71 Squadron Officer School. SOS series.
- .S72 Squadron Officer School Correspondence Course.
- .S74 Squadron Officer Course series.
- .W2 Warfare Systems School.
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 - .B6 C28 Bombardier School. Carlsbad, N. M.
 - .B6 C53 Bombardier School. Childress Field, Texas.
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 - .P5 E12 Pilot training. Eagle Pass Field, Texas.
 - .P5 G14 Pilot training. Gibbs Field, Texas.
 - .P5 G65 Pilot training. Goodfellow Field, Texas.
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- 375 USAF Southern Command, July 8, 1963- (USAF Caribbean Air Command. -July 8, 1963.)
- 379 U. S. Air Forces in Europe. August 7, 1945- (U. S. Strategic Air Forces. -August 7, 1945.)
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- 591 U. S. ARMY AVIATION (after Sep. 18, 1947). (Works on Army Air Forces, 1941-1947; Army Air Corps, 1926-1941; Army Air Service, 1918-1926; Army Signal Corps, Aviation Section, 1914-1918; Army Signal Corps, Aeronautical Division, 1907-1914; class as works on U. S. Air Force.)
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- 5615 USAF Systems Command. 1959- . (Air Research and Development, 1950-1959. Air Materiel Command, -1950.)
- 5616 Subordinate units, A-Z.
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- 1033 Great Britain.
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.F3 Falcon Stadium.

.F4 Farish Memorial.

.H2 Harmon Hall.

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U. S. Air Force Academy: UGB 851.
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Identification and recognition of aircraft: UGK 625.
Shelters: TH 1097.
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De Havilland (Aircraft): TLD 831.D2.
Delta wing aircraft: TLD 703.
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Dental services (Air Forces): UGJ 1743.
Department of the Air Force (U. S.): UGH 222-401.
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Designated Systems Management Group (U. S. A. F.): UGH 257.
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Astronautical: TLE 1029.
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 Equipment: TLC 471.D4.
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 Ducts (Aerodynamics): TLD 333.
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 Electra (Aircraft): TLD 831.L8.
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Auxiliary power units: TLE 60.5.
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Electricity, Atmospheric: TLC 651.

Electromagnetic rockets and propulsion systems: TLE 510.

Space vehicle propulsion: TLE 511.

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Engineering, Flight: TLC 601-611.

Flight plans: TLC 609.

Loading, weight, and balance checking: TLC 607.

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Engineering societies, Aeronautical: TLD 3.

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Engines - Continued.

Aircraft, see Aircraft engines.

Rocket, see Rockets (Aeronautics).

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Enlisted personnel: UGJ 368.

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Espionage: UB 250-271.

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Aircraft factories: TLF 611.

Aircraft production: TLF 318.

Airport construction: TLD 1033.

Etiquette (Air Forces): UGJ 93.

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Flight training: TLB 686.

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Aeronautical: TLB 81-91.

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Mars: TLE 1151.

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Processing: TLF 1171.

Facetiae, Aeronautical: TLB 165.

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Fares, Airline: TLG 223.

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Fatigue (Structures): TLD 511.
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 Federal Aviation Agency, U. S.: TLC 814.
 Feeder airlines: TLC 154.
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 Fighter-interceptor aircraft: UGH 2163.
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Finance
 Accounting (Air Forces): UGJ 1041.
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 Fire control: UGK 1517.
 Fire fighting and prevention
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 Equipment: TLC 757.
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 Firing apparatus (Missiles and rockets): UGK 1091.
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 Flight in art: N 8217.A4.
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 Flight technique, aircraft: TLC 3-244.

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Advertising: TLC 201.

Aerobatics: TLC 31-45.

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Aerostats: TLC 231-244.

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Balloons: TLC 241-244.

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- Takeoff: TLC 14.
 - Jet assisted takeoff: TLE 363.
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- Texts: TLB 671.
- Transonic: TLC 171.
- Turns: TLC 17.
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- Weather forecasting: TLC 655.
- Flight technique, Spacecraft: TLE 1070. See also, various aspects, e. g.,
Communications, Attitude control, reentry, etc.
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- Flight training: TLB 671-688.
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- Flow of traffic in airways: TLG 1341.
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- Flying boats: TLD 775.
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 - Naval: VGH 2127-5299.
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- Flying directions (Airways): TLG 1510-1847.
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 Air Forces: UGH 3107.
 Airlines: TLG 231.
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Inflation (Airship): TLD 915.
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Glossaries, Aeronautical: TLE 219-221.

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Aircraft factories: TLF 791.

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Guidance systems, Space vehicle: TLE 3250.

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Gunnery instruments: UGK 1261.

Gusts: TLD 271.

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Gyro horizon indicators: TLC 431.
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Gyroplanes (Flight technique): TLC 147.

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Hand tools: TLF 905.
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Helicopters: TLD 809.
 Air Forces: UGH 3121.
 Engines: TLE 371-391.
 Flight technique: TLC 145.
 Naval: VGH 2127-5299.
 Shuttle service: TLG 234.
Heliports
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 Operation and management: TLG 461.
High altitude effects: TLC 277.
Hirth (Engine): TLE 121.H65.
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Horsepower indicators: TLC 527.
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 U. S. Air Force Academy: UGB 793.H8.
Hostess, Airline: TLG 171.
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Hours, Working (Airline): TLG 186.
Housing, Air Forces: UGJ 1105.
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Hydraulic systems: TLD 613.
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Hygiene, Aviation: TLC 298.
Hypersonic aerodynamics: TLD 221.

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Identification of aircraft: TLD 451.
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Industrial aeronautics: TLF 101-121. See also Aircraft factories; Aircraft
manufacture; Airlines; Airports; and Airways.

Industries

Aerospace: TLE 1036.
Aircraft: TLF 127-507.
Rocket: TLE 570.
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Inflation equipment (Airships): TLD 915.
Information services (Air Forces): UGJ 1617.
Inlets (Aerodynamics): TLD 333.
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Air Forces: UGH 2141.
Commercial: TLG 194.

Uniforms

Air Forces: UGJ 1144.
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Inspection (Air Forces): UGJ 259-261.
U. S. Air Force Academy: UGB 846.
Inspections, Aircraft: TLF 331.

Safety devices: TLC 751.

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Institutions, Research: TLD 75-111.
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Jet aircraft: TLD 710.
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 Vertical takeoff and landing: TLC 163.
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Jet driven rotors: TLE 391.
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Jet used as brakes: TLC 165.
Judiciary: UGJ 803-811.
 Judge Advocate General (U. S. A. F.): UGJ 811.

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Kennedy Test Annex, Cape: UGH 5616.M5.
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Laboratory, Aeronautics (U. S. Air Force Academy): UGB 793.A5.
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Security Service: UGJ 875.
Uniform Code of Military Justice: UB 853.
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Airport construction: TLD 1023.
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Airways: TLG 1307-1321.
Traffic: TLG 1351.
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Air Force Academy: UGB 809.
Air Forces: Z 675.M5.
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U. S. Manned Spacecraft Center, Houston, Texas: TLE 1053.3.

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Map reading, Aeronautical: TLC 331-336.

Weather: TLC 626.

Maps, Aeronautical: Classed in Map Collection by ACIC number.

Aeronautical Chart and Information Center: UGH 389.

U. S. A. F. Air Photographic and Charting Service: UGJ 1314.

Marine Corps aeronautics: UGB 3-291.

Aeronautical education and training: VGB 535-571.

Aeronautical schools: VGB 1450-1452.

Air Forces: VGH 1750-1751.

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Mechanics Department (U. S. Air Force Academy): UGB 815.53.M4.

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U. S. A. F. Air Weather Service: UGJ 1313.
Weather maps and charts: Classed in Map Collection by number.
Weather reporting: TLC 657.
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Military aeronautical schools, see Aeronautical schools, Air Forces.
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National Aeronautics and Space Administration (U. S.): TLD 75.

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Aeronautical education and training: VGB 535-1352.

Aeronautical schools: VGB 741-1352.

Air Forces: VGH 21-831.

Aircraft: VGH 2127-4177.

Biography: VGB 290-291.

Naval air bases: VGH 5307-5313.

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North American Air Defense Command: UGK 331.N6.
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Office of Aerospace Research (U. S. A. F.): UGH 5614.

Frank J. Seller Research Laboratory: UGH 5614.4.

Officers (Air Forces): UGJ 365.

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School (USAF OCS): UGB 1161.03.

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Omnirange receivers: TLC 471.06.
Operations Analysis Office (U. S. A. F.): UGH 255.
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U. S. Air Force Academy personnel: UGB 822.M4.

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 Bibliography: Z 5064.R6.
 Congresses: TLE 501.
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 Aeronautical: TLB 227-245.
 Historical: TLB 254.
 Air Forces: UGH 212.
 U. S. Air Force Academy: UGB 855.
 Aircraft: TLD 451.
 Air Forces: UGH 2117
 Aircraft engines: TLE 27.

Yearbooks - Continued.

Aircraft industries: TLF 131.

Airlines: TLG 32.

Astronautics: TLE 1024.

Education: TLB 667.

Schools: TLB 853.

Engineering: TLD 7.

Z

Zoning of airports: TLD 1029.